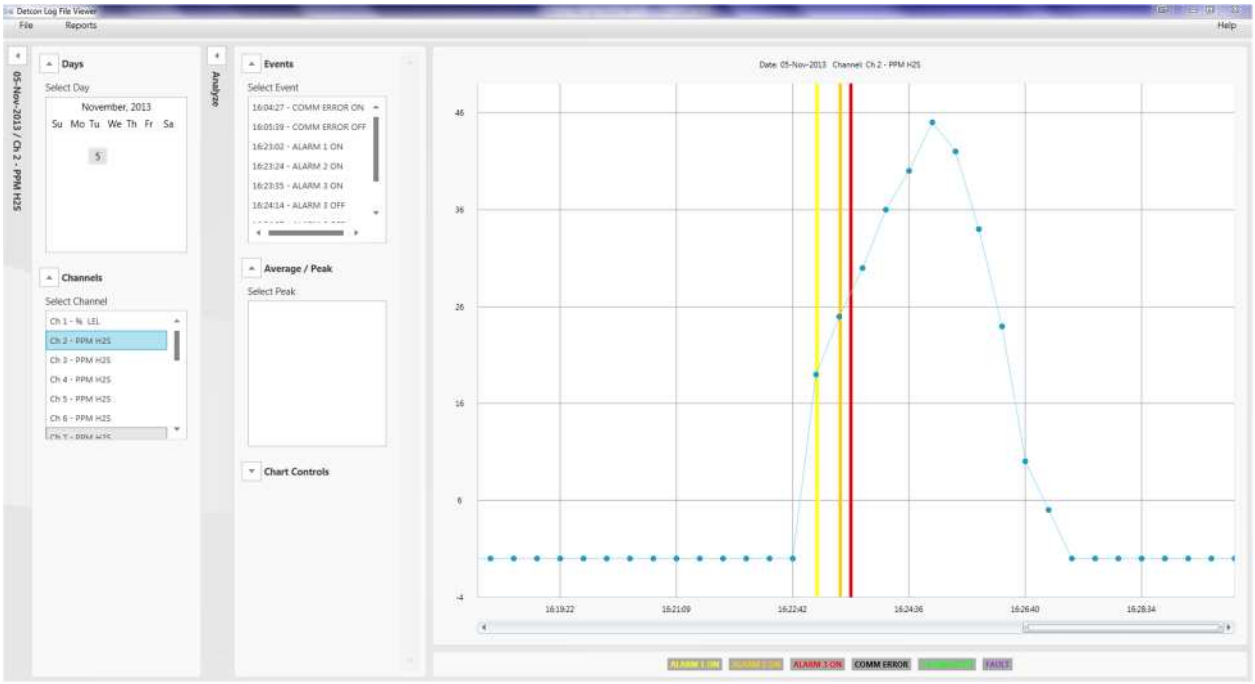
USER MANUAL
Detcon Log File Viewer



detcon inc.

DETCON, Inc.
4055 Technology Forest Blvd.,
The Woodlands, Texas 77381
Ph.281.367.4100 / Fax 281.298.2868
www.detcon.com

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Table 1 Chart Legend 11

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1. Introduction

1.1 Description

1. The Detcon Log File Viewer was created to view recorded data from various gas detection controllers in a graphical format. The data is recorded on a flash card that is installed in the controller. When the data is ready to be viewed, the flash card is then removed from the controller and connected to a computer so that the software can access the log files.
2. Detcon Log File Viewer supports the data recorded from the following models of Detcon gas detection controllers:
    - X40
    - MCX-32

The following firmware is required for models X40 and MCX-32:

- X40 – Version 6.05P or later
- MCX-32 – Version 3.13 or later

Once the logs are loaded into the software, the graph (Figure 1) allows users to view the following series of events:

- Alarms
- Faults
- Communication errors
- Calibration cycle
- Average/Peak readings

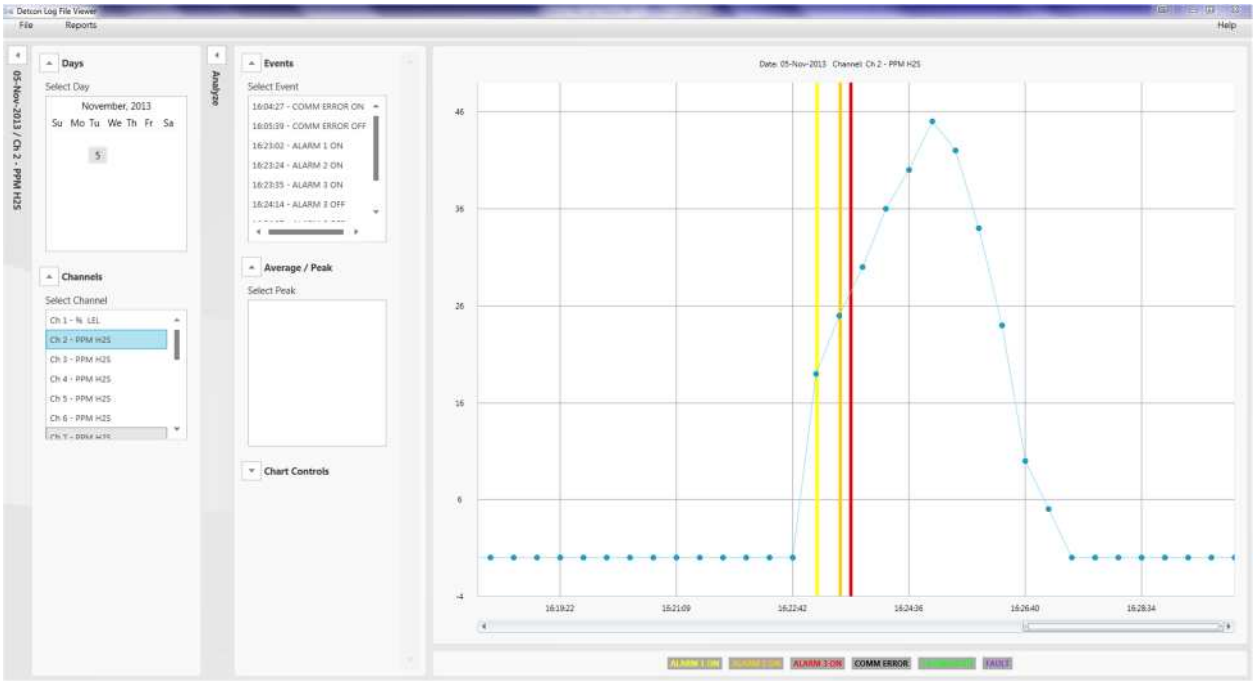

Figure 1 Example of a Series of Events

2. Installation

NOTE: The Detcon Log File viewer requires Windows 7 or later.

1. Go to the location where the Detcon File Logger.exe file is located. This may be on a CD, storage device, or a downloaded file.
2. Double-click the Detcon File Logger.exe file. The Welcome to the InstallShield Wizard for Detcon Log File Viewer screen displays (Figure 2).

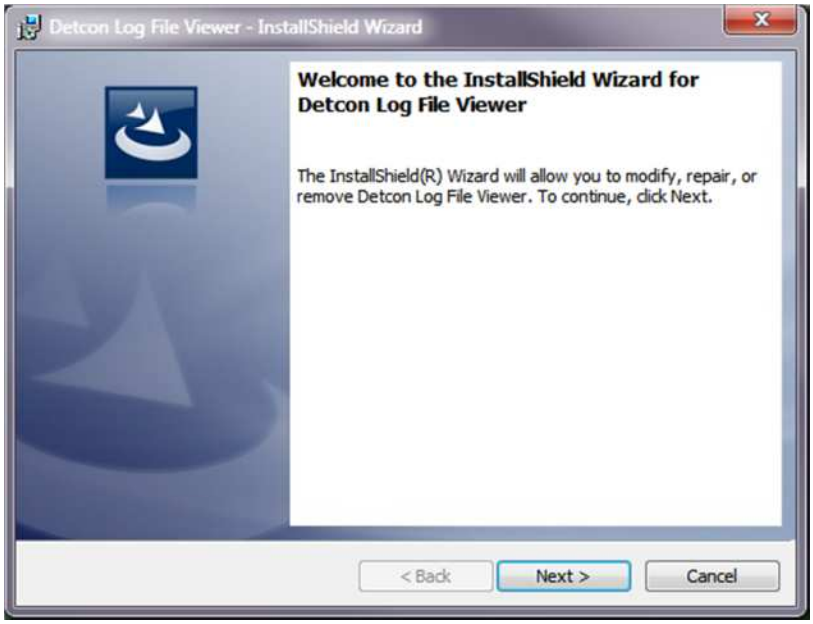
Detcon Log File Viewer - InstallShield Wizard
Welcome to the InstallShield Wizard for Detcon Log File Viewer
The InstallShield(R) Wizard will allow you to modify, repair, or remove Detcon Log File Viewer. To continue, click Next.
< Back
Next >
Cancel

Figure 2 Welcome to the InstallShield Wizard Detcon Log File Viewer

Click Next. The Ready to Install the Program screen displays (

3. Figure 3).

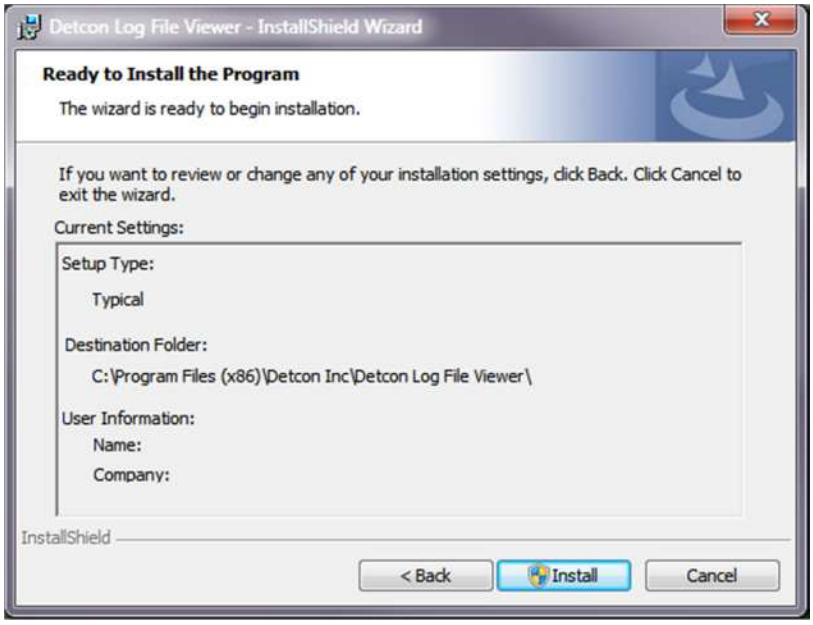

Figure 3 Ready to Install the Program

4. Click Install. Installation begins and may take several minutes. The InstallShield Wizard Completed screen displays when installation is complete (Figure 4).

NOTE: Depending on the computer's User Account Controls settings, a User Account Control dialog box may display and request permission to install the program. Select Yes to give permission to install the Detcon Log File Viewer.

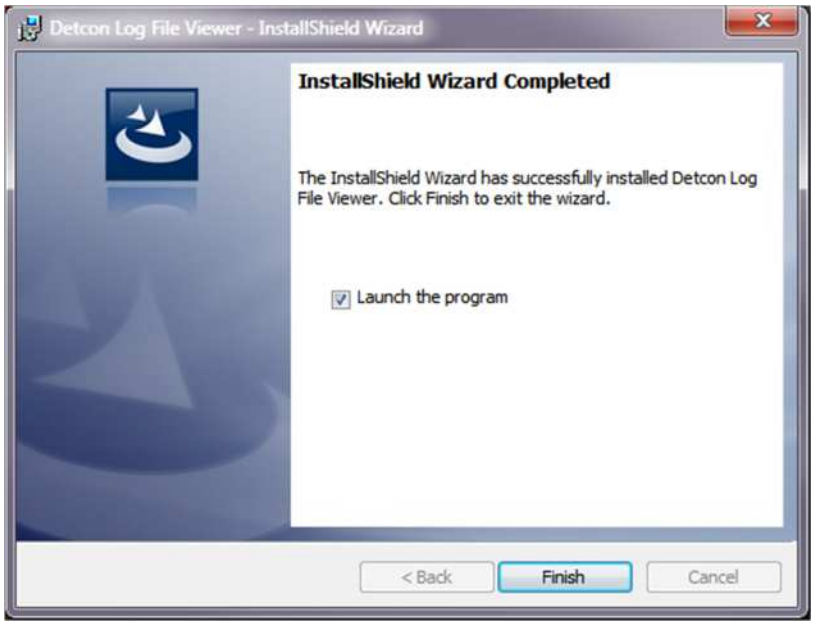
Detcon Log File Viewer - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Detcon Log File Viewer. Click Finish to exit the wizard.
Launch the program
< Back
Finish
Cancel

Figure 4 InstallShield Wizard Completed

5. Click **Finish** to close the Detcon Log File Viewer InstallShield Wizard and open the Detcon Log File Viewer program.

3. Opening Logs

3.1 Opening Logs

1. After the controller is powered down, remove the flash card from the controller (see the appropriate Instruction Manual for the controller).
2. Connect the flash card to the computer using a flash card reader (USB or built into the computer).
3. Go to Start Menu>All Programs>Detcon Inc>Detcon Log File Viewer>Detcon Log File Viewer. The Detcon Log File Viewer opens (Figure 5).

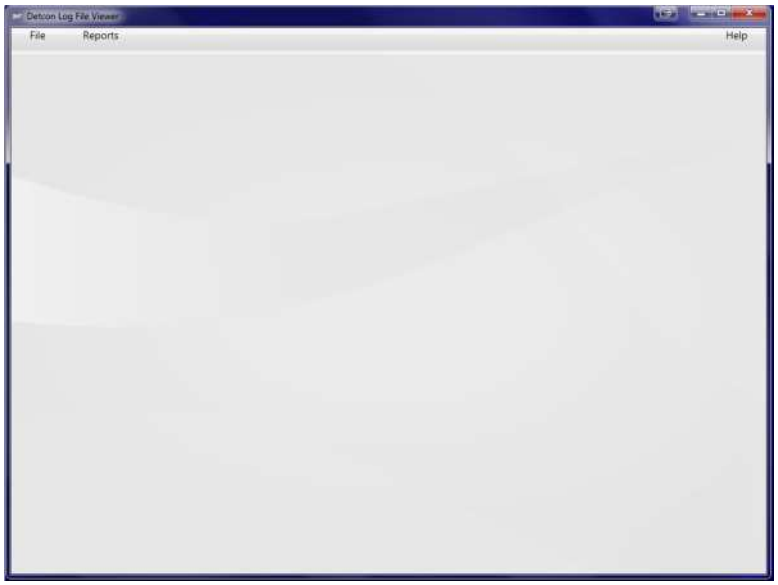

Figure 5 Detcon Log File Viewer

4. Click **File > Open** to open the Browse for Folder screen (Figure 6).

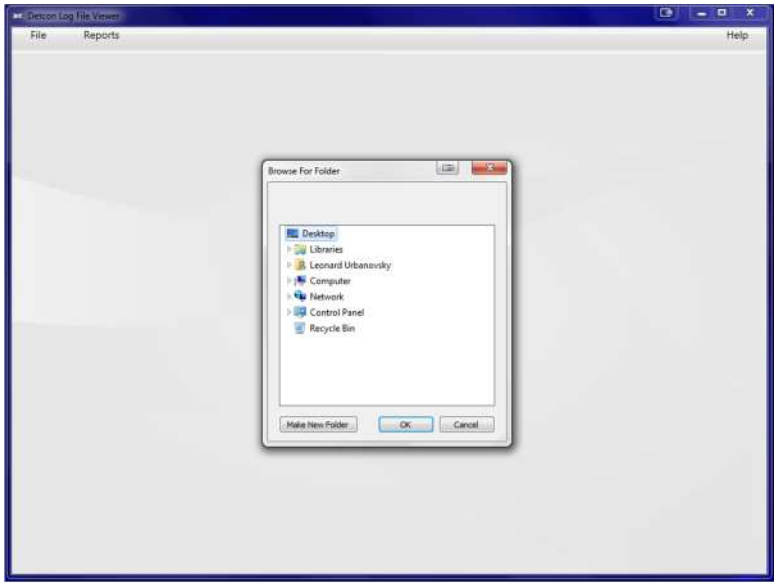

Figure 6 Browse for Folder

5. Browse to flash card and select the LOGS folder. Click **OK** to open the log files (Figure 7).

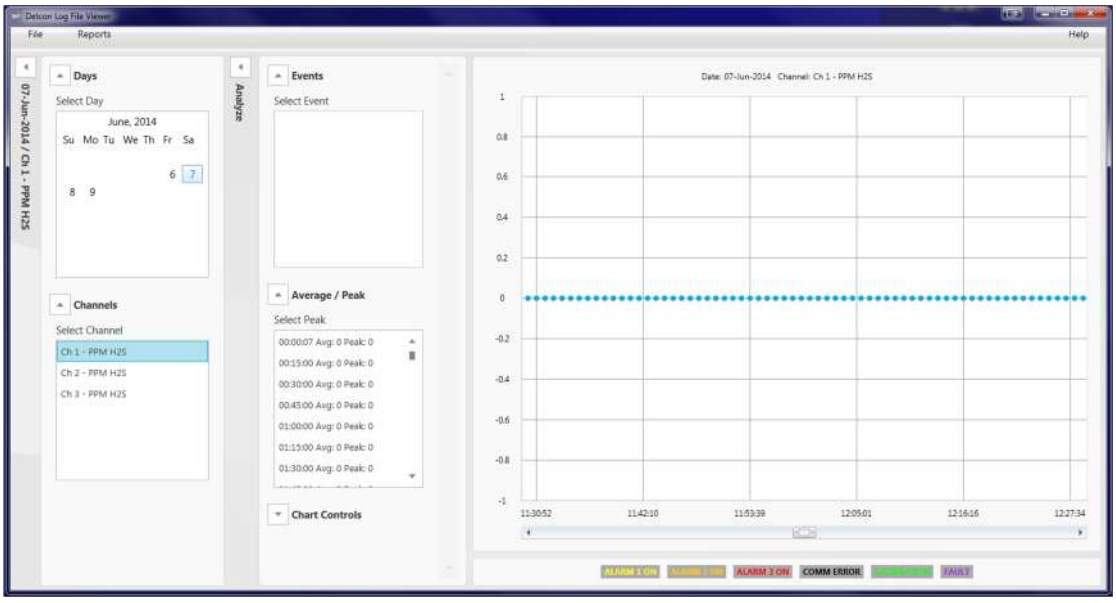

Figure 7 Logs Open

3.2 View by Date Recorded

1. In the Days area (Figure 8), select the desired date to view.

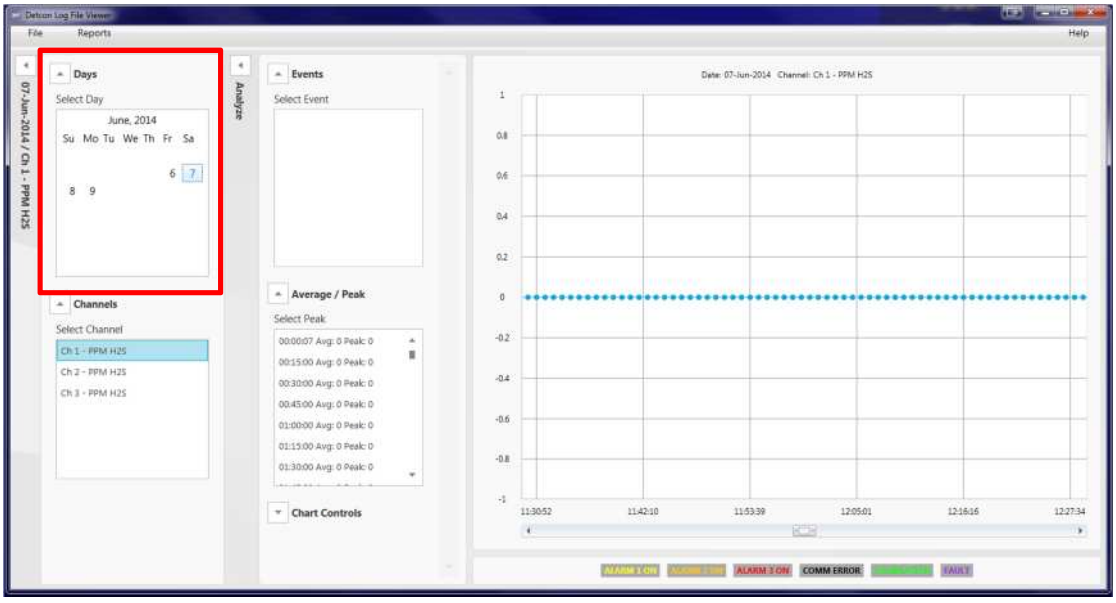

Figure 8 Days Area

2. To view the start time, use the scroll bar to scroll left to the beginning of the log.
3. Scroll to the right to view the data for each time stamp. The timestamps are listed horizontally below the chart. The sensor values are listed vertically to the left of the chart.

NOTE: Click the next day on the calendar when 12:00 a.m. is reached for the currently viewed day.

4. Click on the chart and, scroll using the bottom scroll bar or use the mouse wheel to zoom into the data.

NOTE: If the mouse does not have a mouse wheel, select an area on the chart to view. Click in the area and hold the left mouse button. With the left mouse button pressed, drag down and to the right or left to zoom into the data.

5. Place the mouse over the recorded data represented by the blue dots to view the Date/Time and Value of the recorded data (Figure 9).

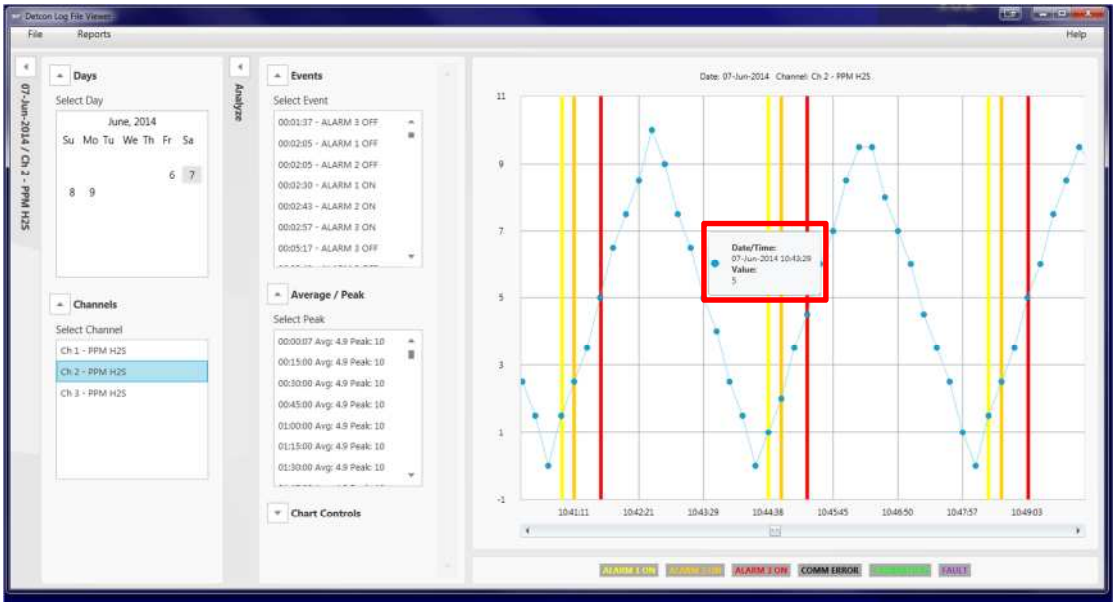

Figure 9 Data Values

6. Analyze the data using the color-coded legend to help identify the events detected. Use the following table for more description (Table 1).

Table 1 Chart Legend

Label	Description
ALARM 1 ON ALARM 2 ON ALARM 3 ON	Represents alarms that were triggered during monitoring.
FAULT	A sensor fault occurred. The data may not be valid after a sensor fault occurs.
CALIBRATION	A user initiated a calibration cycle (either a zero or span calibration)
COMM ERROR	The sensor stopped communication with the controller.
Vertical Lines	Vertical lines indicate when an event starts. The color of the vertical lines will correspond with the type of event according to the legend (i.e., a yellow vertical line will indicate when Alarm 1 was triggered).

7. Select **Reset Zoom** in the Chart Controls area to reset the chart to the default view (Figure 10).

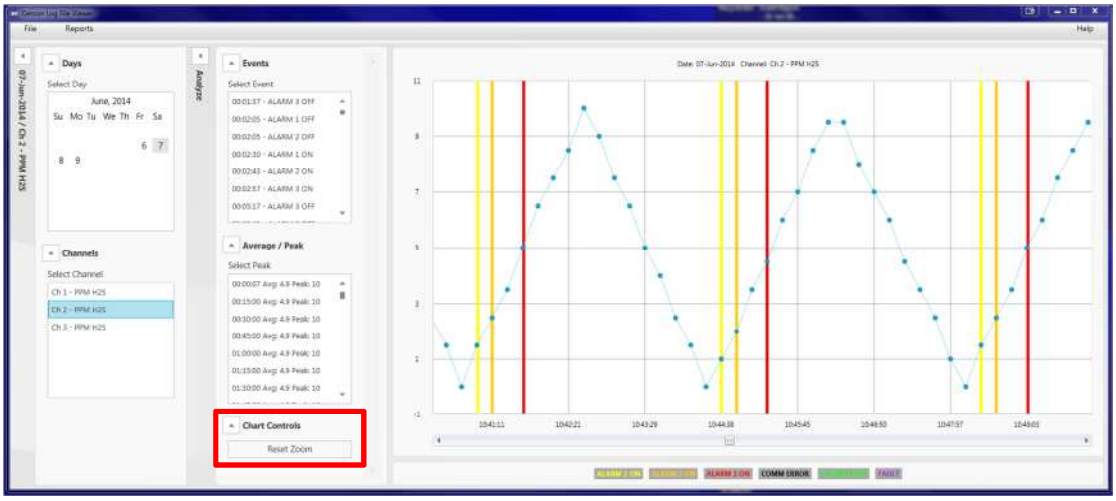

Figure 10 Zoom Controls

3.3 View by Channel

1. To view events on different channels, select the desired channel in the Channels area Figure 11

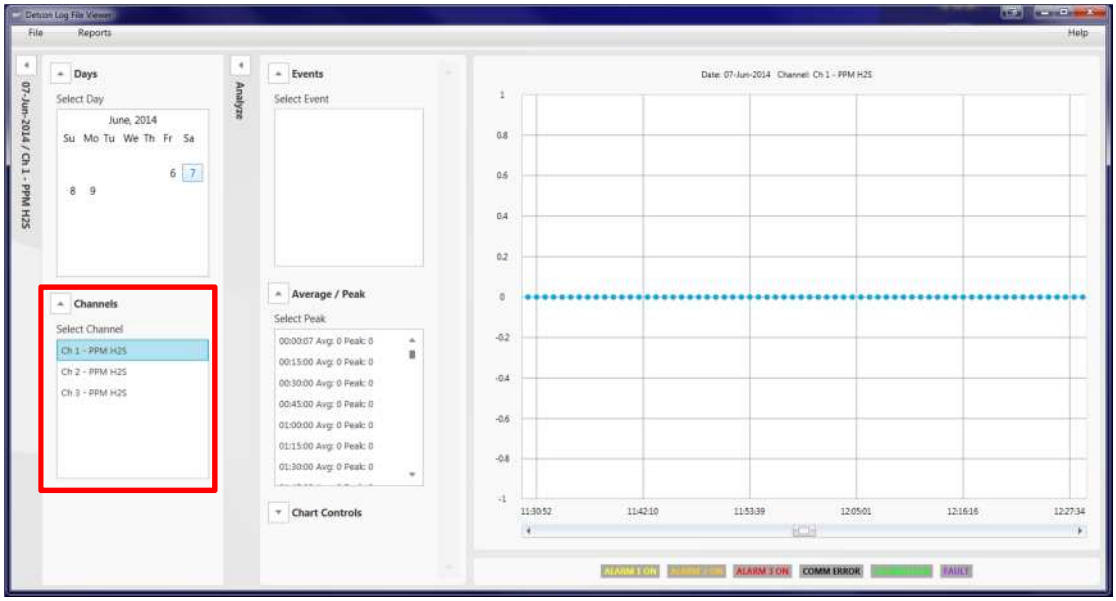

Figure 11 Channels Area

2. Analyze the data using the zoom methods described in Section 3.2.

3.4 View by Events

1. To view specific events on the selected channel, select the event from the Events list. Clicking the event centers on the graph by the time the event started (Figure 12). The list provides a brief description of each event type.

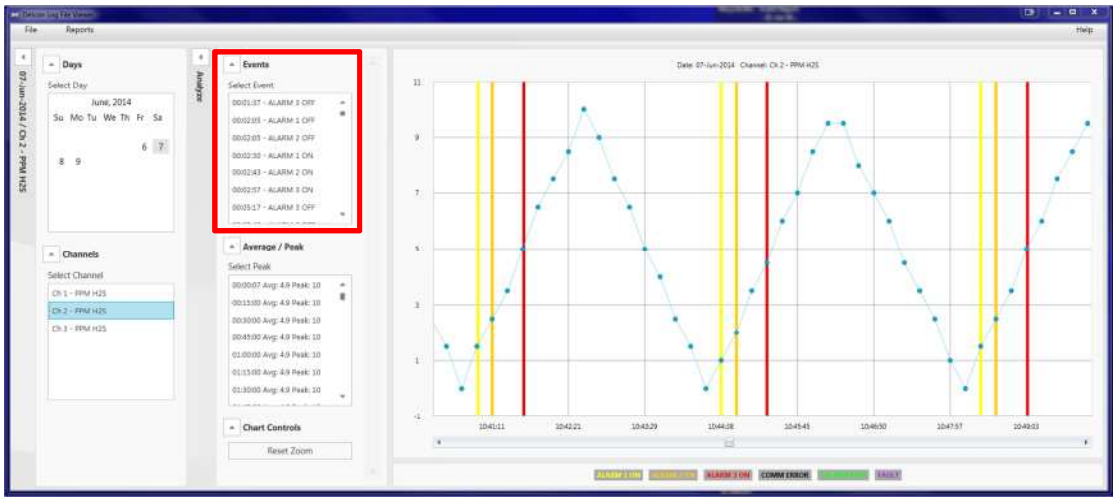

Figure 12 Events List

2. Analyze the data using the zoom methods described in Section 3.2.

3.5 View by Average/Peak

The Average/Peak area shows the average and peak readings in 15 minute intervals. The average value is the average of all of the values logged for the channel over the previous 15 minutes. For example, the average value shown for 11:00AM is the average of all the values logged for the channel between 10:45AM and 11:00AM.

The peak value is the maximum reading for the previous 15 minutes. For example, the peak shown for 8:00AM is the maximum value logged for the channel between 7:45AM and 8:00AM.

1. Select a time from the Average/Peak list. Clicking the time centers the screen on that time. Two horizontal lines will appear on the graph (see Figure 13). The red line marks the peak reading value and the green line marks the value of the average.

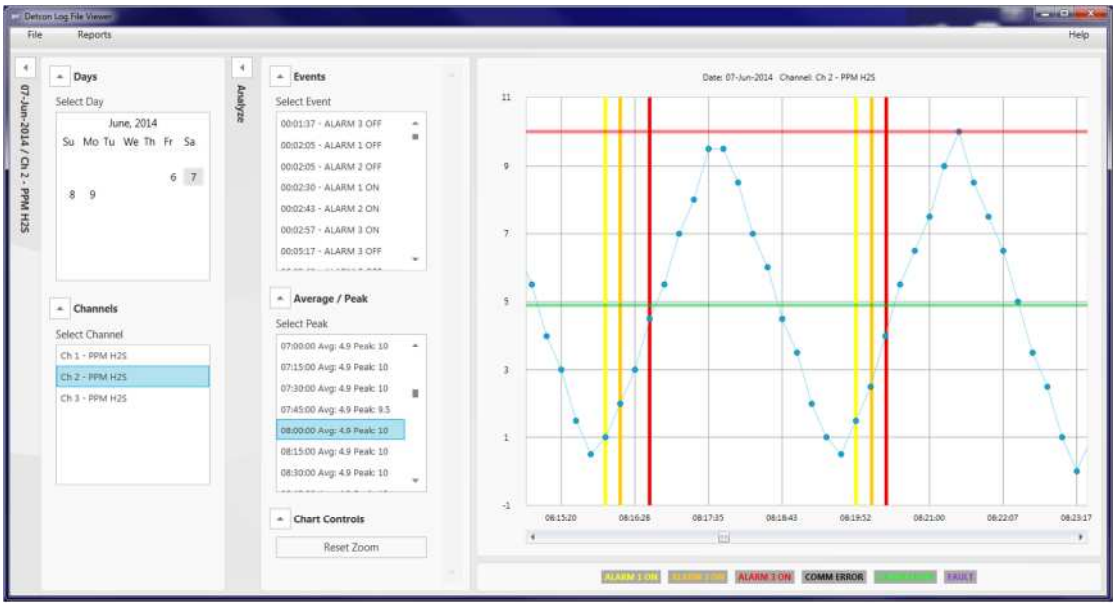

Figure 13 Average/Peak area

2. Analyze the data using the zoom methods described in Section 3.2.

4. Saving Charts

After analyzing a chart, an image of that chart can be saved as an image file.

1. After the chart is zoomed in to the desired view, click **File > Save Chart in** the top left corner. The Save As screen displays (Figure 14).

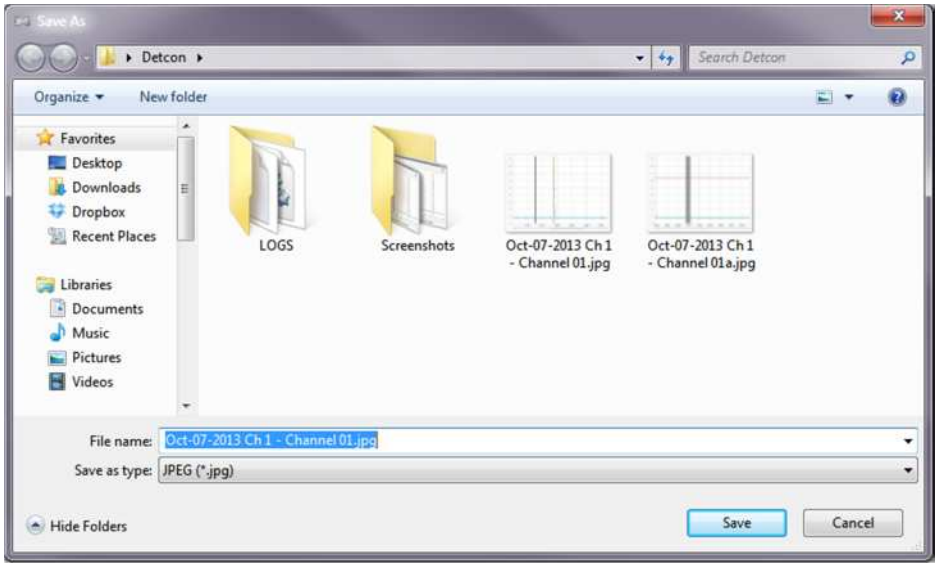

Figure 14 Save As Screen

2. Navigate to the folder of the desired location to save the chart file and click **Save**.
3. Type a name for the file in the File name field.
4. Select the desired file type from the Save as type drop-down list. The images can be saved as *.jpg, *.bmp, or *.png files.

5. Reports

The Detcon Log File Viewer is capable of creating reports to summarize the events and average/peak values that have been logged. The user can select a start and end date as well as the format of the report.

5.1 Event Reports

The event report is created by selecting **Reports > Event Report**. A pop-up window will open to allow the user to select a start and end date (Figure 15). After the dates are selected, clicking the “Create Event Report” button will open the Save As window (Figure 16).

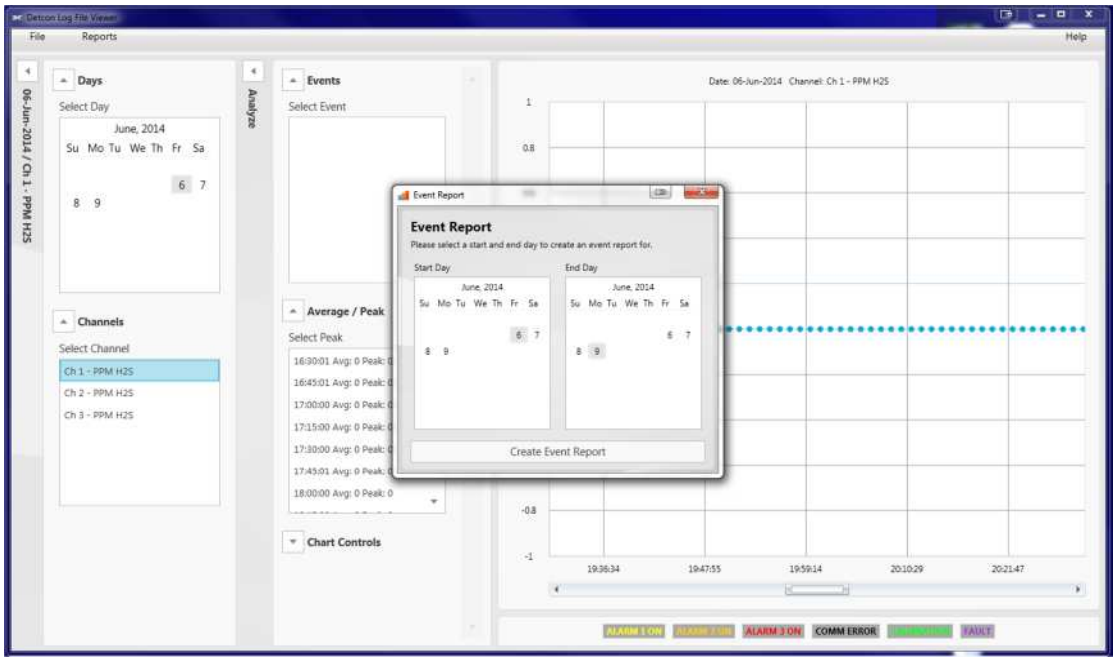

Figure 15 Event Report Date Selection

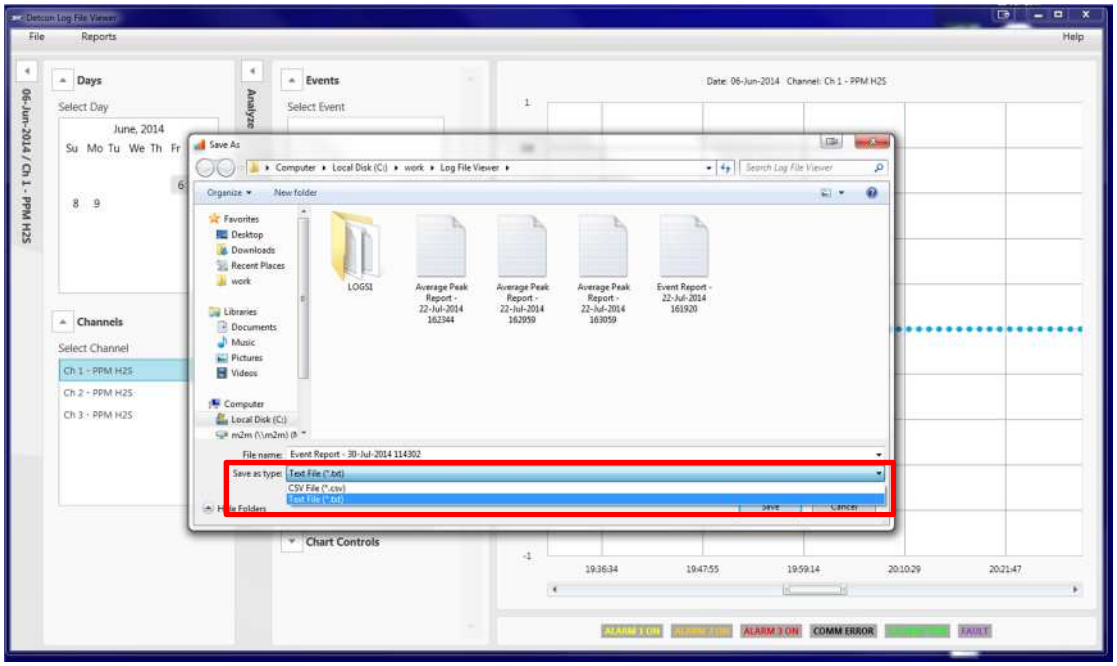

Figure 16 Event Report Save As Window

The Event Report can either be saved in text or Excel format. Selecting the file type determines which format the report will be saved in. Both reports contain the same information (see sample reports in Figure 17 and Figure 18).

The Date and Time columns list the date and time that the event was logged. The Channel column lists the channel on which the event occurred. System-wide events (i.e. power on, logging enabled, etc.) have “System” shown in the Channel column. These are events that affect the entire controller, not just a single channel.

Date	Time	Channel	User Tag	GasTypeUnits	Event	Alarm Level
06-Jun-2014	15:49:37	System			POWER ON	
06-Jun-2014	15:49:38	System			WARMING UP	
06-Jun-2014	15:49:57	System			POWER ON	
06-Jun-2014	15:49:58	System			WARMING UP	
06-Jun-2014	15:50:17	System			POWER ON	
06-Jun-2014	15:50:17	System			WARMING UP	
06-Jun-2014	15:51:28	System			POWER ON	
06-Jun-2014	15:51:28	System			WARMING UP	
06-Jun-2014	15:52:48	System			POWER ON	
06-Jun-2014	15:52:49	System			WARMING UP	
06-Jun-2014	16:02:51	System			LOGGING ENABLED	
06-Jun-2014	16:03:03	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:03:19	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:03:32	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:03:45	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:03:58	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:06:19	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:06:45	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:06:58	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:07:12	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:07:26	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:07:39	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:09:58	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:10:24	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:10:39	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:10:51	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:11:05	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:11:30	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:13:46	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:14:15	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:14:15	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:14:41	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:14:54	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:15:08	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:17:24	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:17:52	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:18:05	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:18:19	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:18:32	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:18:58	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:21:17	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:21:32	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:21:46	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:21:59	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:22:12	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
06-Jun-2014	16:22:39	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
06-Jun-2014	16:24:55	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
06-Jun-2014	16:25:22	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
06-Jun-2014	16:25:36	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
06-Jun-2014	16:25:49	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
06-Jun-2014	16:26:04	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2

Figure 17 Sample Event Report (Text Format)

	A	B	C	D	E	F	G
1	Date	Time	Channel	User Tag	GasTypeUnits	Event	Alarm Level
2	6-Jun-14	15:49:37	System			POWER ON	
3	6-Jun-14	15:49:38	System			WARMING UP	
4	6-Jun-14	15:49:57	System			POWER ON	
5	6-Jun-14	15:49:58	System			WARMING UP	
6	6-Jun-14	15:50:17	System			POWER ON	
7	6-Jun-14	15:50:17	System			WARMING UP	
8	6-Jun-14	15:51:28	System			POWER ON	
9	6-Jun-14	15:51:28	System			WARMING UP	
10	6-Jun-14	15:52:48	System			POWER ON	
11	6-Jun-14	15:52:49	System			WARMING UP	
12	6-Jun-14	16:02:51	System			LOGGING ENABLED	
13	6-Jun-14	16:03:03	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
14	6-Jun-14	16:03:19	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
15	6-Jun-14	16:03:32	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
16	6-Jun-14	16:03:45	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
17	6-Jun-14	16:03:58	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
18	6-Jun-14	16:06:19	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
19	6-Jun-14	16:06:45	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
20	6-Jun-14	16:06:58	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
21	6-Jun-14	16:07:12	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
22	6-Jun-14	16:07:26	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
23	6-Jun-14	16:07:39	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
24	6-Jun-14	16:09:58	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
25	6-Jun-14	16:10:24	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
26	6-Jun-14	16:10:39	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
27	6-Jun-14	16:10:51	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
28	6-Jun-14	16:11:05	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
29	6-Jun-14	16:11:30	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
30	6-Jun-14	16:13:46	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
31	6-Jun-14	16:14:15	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
32	6-Jun-14	16:14:15	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
33	6-Jun-14	16:14:41	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
34	6-Jun-14	16:14:54	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2
35	6-Jun-14	16:15:08	Ch 2	MUD PIT	PPM H2S	ALARM 3 ON	4
36	6-Jun-14	16:17:24	Ch 2	MUD PIT	PPM H2S	ALARM 3 OFF	
37	6-Jun-14	16:17:52	Ch 2	MUD PIT	PPM H2S	ALARM 2 OFF	
38	6-Jun-14	16:18:05	Ch 2	MUD PIT	PPM H2S	ALARM 1 OFF	
39	6-Jun-14	16:18:19	Ch 2	MUD PIT	PPM H2S	ALARM 1 ON	1
40	6-Jun-14	16:18:32	Ch 2	MUD PIT	PPM H2S	ALARM 2 ON	2

Figure 18 Sample Event Report (Excel Format)

The name given to the channel by the user is shown in the “UserTag” column and the gas type and units (ppm or %LEL) is shown in the GasTypeUnits” column. The Event column lists the type of event that occurred, such as an alarm activation or deactivation, comm error, or sensor fault. If the event was an alarm activation, then the alarm threshold is shown in the Alarm Level column.

5.2 Average Peak Reports

The Average Peak Report is created by selecting **Reports > Average Peak Report**. A pop-up window will open to allow the user to select a start and end date (see Figure 19). The user can also select the time interval for the report. The peaks and averages can be reported on 15 minute, 30 minute, or one hour intervals. Clicking the “Create Average Peak Report” button will open the Save As window (Figure 20).

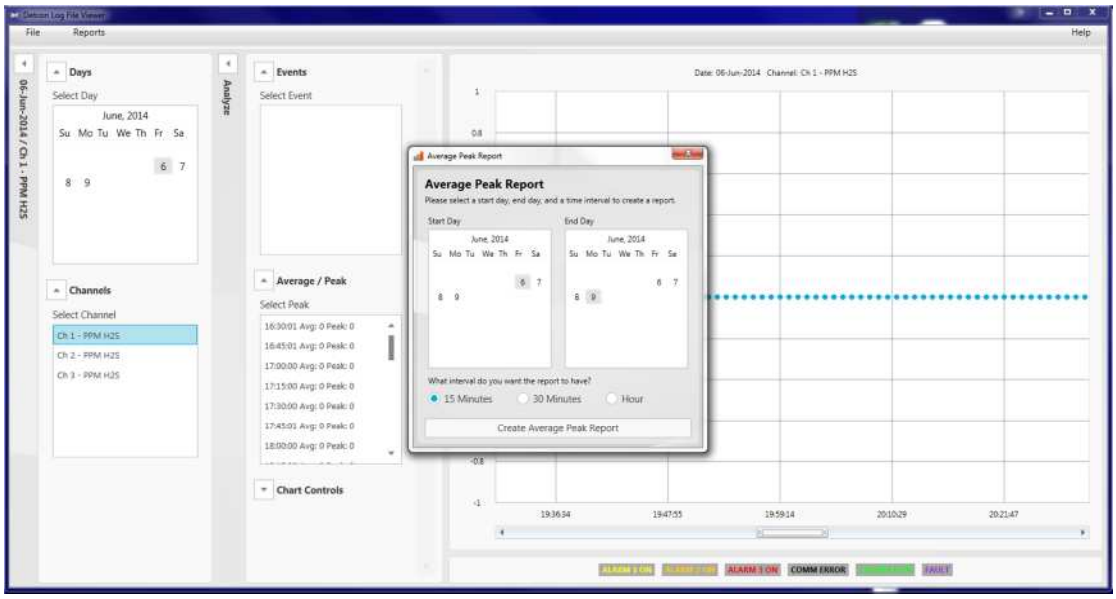

Figure 19 Average Peak Report Date Selection

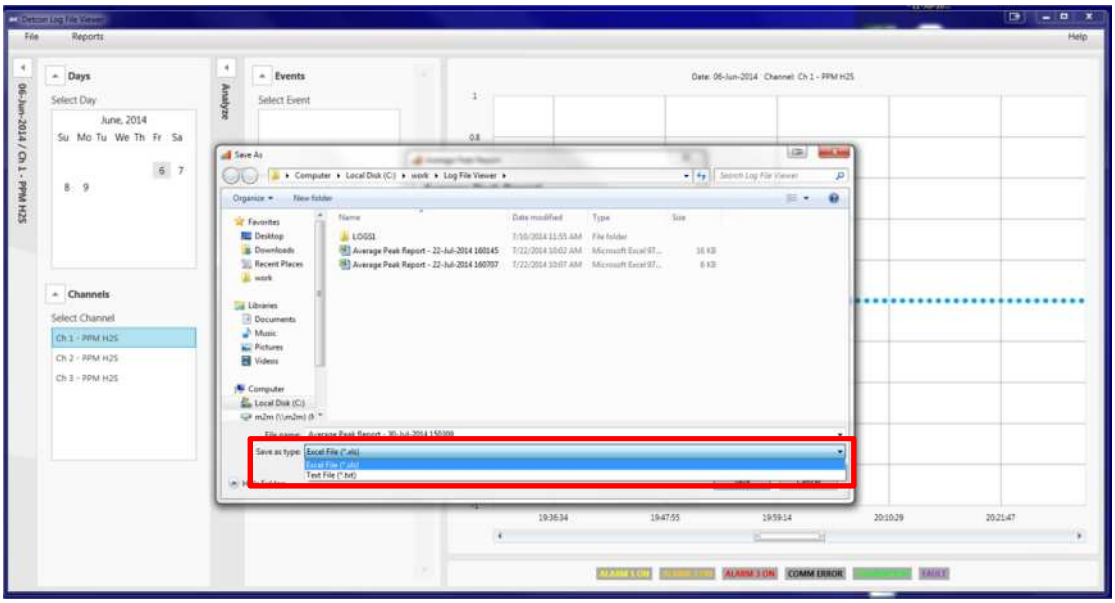

Figure 20 Average Peak Report Save As Window

The Average Peak Report can either be saved in text or Excel format. Selecting the file type determines which format the report will be saved in. The two report formats contain different data and are formatted differently.

An example of the text report is shown in Figure 21. The text report is made up of sections of data for each time interval. Each section of data begins with the date and time of the interval. Following each time/date are columns for the channel number, peak reading, average, TWA, gas type/units, and user tag.

The peak value is the maximum reading that was logged for the channel during the interval. The average value is the simple average of all the values that were logged during the interval. Both of these values are for the *previous* interval of data. For example, if the interval was selected to be 30 minutes, then the values shown for 11:00:00 are determined using the data from 10:30:01 to 11:00:00.

The TWA value is the Time Weighted Average of the data for the previous eight hours. The TWA is always for the previous eight hours regardless of the interval selected by the user. The TWA will be listed as “N/A” until eight hours of data have been logged. After eight hours, the TWA is updated every interval. For example, if logging began at 08:00:00, the first TWA value will be shown in the report at 16:00:00. The TWA will be for all of the data from 08:00:00 to 16:00:00. If the interval was selected as 15 minutes, then the next TWA value in the report will be at 16:15:00. This value is the TWA for 08:15:00 to 16:15:00.

```
06-Jun-2014 23:30:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               N/A             PPM H2S             MUD PIT
2                   10              4.9             N/A             PPM H2S             DRILL FLOOR
3                   0               0               N/A             PPM H2S             ENGINE ROOM

06-Jun-2014 23:45:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               N/A             PPM H2S             MUD PIT
2                   10              4.9             N/A             PPM H2S             DRILL FLOOR
3                   0               0               N/A             PPM H2S             ENGINE ROOM

07-Jun-2014 00:00:07
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               N/A             PPM H2S             MUD PIT
2                   10              4.9             N/A             PPM H2S             DRILL FLOOR
3                   0               0               N/A             PPM H2S             ENGINE ROOM

07-Jun-2014 00:15:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               N/A             PPM H2S             MUD PIT
2                   10              4.9             N/A             PPM H2S             DRILL FLOOR
3                   0               0               N/A             PPM H2S             ENGINE ROOM

07-Jun-2014 00:30:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               0               PPM H2S             MUD PIT
2                   10              4.9             4.88            PPM H2S             DRILL FLOOR
3                   0               0               0               PPM H2S             ENGINE ROOM

07-Jun-2014 00:45:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               0               PPM H2S             MUD PIT
2                   10              4.9             4.88            PPM H2S             DRILL FLOOR
3                   0               0               0               PPM H2S             ENGINE ROOM

07-Jun-2014 01:00:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               0               PPM H2S             MUD PIT
2                   10              4.9             4.88            PPM H2S             DRILL FLOOR
3                   0               0               0               PPM H2S             ENGINE ROOM

07-Jun-2014 01:15:00
Channel             Peak            Average         TWA             GasTypeUnits        User Tag
1                   0               0               0               PPM H2S             MUD PIT
2                   10              4.9             4.88            PPM H2S             DRILL FLOOR
3                   0               0               0               PPM H2S             ENGINE ROOM
```

Figure 21 Average Peak Text Report

	A	B	C	D	E	F	G	H
1			Ch 1 - PPM H2S		Ch 2 - PPM H2S		Ch 3 - PPM H2S	
2	Date	Time	Peak	Average	Peak	Average	Peak	Average
3	06-Jun-2014	16:30:01	0	0	10	4.8	0	0
4	06-Jun-2014	17:00:00	0	0	10	4.9	0	0
5	06-Jun-2014	17:30:00	0	0	10	4.9	0	0
6	06-Jun-2014	18:00:00	0	0	10	4.9	0	0
7	06-Jun-2014	18:30:01	0	0	10	4.9	0	0
8	06-Jun-2014	19:00:00	0	0	10	4.9	0	0
9	06-Jun-2014	19:30:00	0	0	10	4.9	0	0
10	06-Jun-2014	20:00:00	0	0	10	4.9	0	0
11	06-Jun-2014	20:30:00	0	0	10	4.9	0	0
12	06-Jun-2014	21:00:00	0	0	10	4.84	0	0
13	06-Jun-2014	21:30:00	0	0	10	4.84	0	0
14	06-Jun-2014	22:00:00	0	0	10	4.8	0	0
15	06-Jun-2014	22:30:00	0	0	10	4.84	0	0
16	06-Jun-2014	23:00:00	0	0	10	4.8	0	0
17	06-Jun-2014	23:30:00	0	0	10	4.9	0	0
18	07-Jun-2014	00:00:07	0	0	10	4.9	0	0
19	07-Jun-2014	00:30:00	0	0	10	4.9	0	0
20	07-Jun-2014	01:00:00	0	0	10	4.9	0	0
21	07-Jun-2014	01:30:00	0	0	10	4.9	0	0
22	07-Jun-2014	02:00:00	0	0	10	4.9	0	0
23	07-Jun-2014	02:30:00	0	0	10	4.9	0	0
24	07-Jun-2014	03:00:00	0	0	10	4.9	0	0
25	07-Jun-2014	03:30:00	0	0	10	4.8	0	0
26	07-Jun-2014	04:00:00	0	0	10	4.8	0	0
27	07-Jun-2014	04:30:00	0	0	10	4.84	0	0
28	07-Jun-2014	05:00:00	0	0	10	4.84	0	0
29	07-Jun-2014	05:30:00	0	0	10	4.9	0	0
30	07-Jun-2014	06:00:00	0	0	10	4.84	0	0
31	07-Jun-2014	06:30:00	0	0	10	4.9	0	0
32	07-Jun-2014	07:00:00	0	0	10	4.9	0	0
33	07-Jun-2014	07:30:00	0	0	10	4.9	0	0
34	07-Jun-2014	08:00:00	0	0	10	4.9	0	0

Figure 22 Average Peak Excel Report

The Average Peak Report can also be created in Excel format (Figure 22). The Excel format report has the date and time of each interval listed down the left side of the spreadsheet. Each channel has two columns that contain the peak and average reading for each interval. The peak and average readings are calculated using the data logged during the interval that ends at the time shown in the left-hand columns. The TWA value is not available in the Excel format report.

6. About

This manual can be accessed by clicking **About** in the Detcon Log File Viewer.

7. Change Log

Version	Date	Changes
1.0	01/29/14	Initial Release
1.1	07/30/14	Added Reports section, updated screen shots